

### **ABSTRACT OF THE DISCLOSURE**

A method and apparatus for removing false contours in a pulse number modulation (PNM) digital display device having a plasma display panel (PDP). The method involves a) comparing the input data with the comparison data and calculating a plurality of possible output data in consideration of an index error between the input data and error-diffused input data so that the false contours can be removed, the error-diffused input data being obtained by diffusing a quantization error that has occurred in pixels adjacent to the input data in the current frame; b) detecting an index error between the input data and the error-diffused input data; and c) selecting one from among the plurality of possible output data obtained in step a) in consideration of the index error detected in step b).